

## INTEGRATED OPTICAL DEVICE AND METHOD OF MAKING THE SAME

### Abstract of the Disclosure

An optical cable and method of making the same, the optical cable being characterized by an axial symmetry and comprising a core, doped with phosphorescent or fluorescent impurities, and a transparent envelope. The transparent envelope comprises a cladding layer and optionally a jacket layer surrounding the cladding layer. The optical cable may further comprise an associated light source comprising an inner electrode, an outer electrode, and an active area, located between said inner electrode and said outer electrode. The light source and said optical cable are integrated as a unit. The light source is characterized by an axial symmetry and is positioned coaxial with respect to the axis of the optical cable. The inner electrode is substantially transparent, such that light generated in said active area may propagate outside said light source and into the optical cable.

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